DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY

31. Howard, K. A., Aaron, J. M., Brabb, E. E.,

Brock, M. R., Gower, H. D., Hunt, S. J.

Milton, D. J., Muehlberger, W. R.,

Nakata, J. K., Plafker, George, Prowell, D. C., Wallace, R. E., and Witkind, I.

J., 1978, Preliminary map of young faults

in the United States as a guide to possible fault activity: U.S. Geological Survey Miscellaneous Field Studies Map

MF-916; used for fault ages in California

and historic faults in Baja California.

California with locations of volcanoes,

thermal springs and thermal wells, 1:750,000: California Division of Mines

and Geology; used for fault traces in

Roswell, Las Cruces, Silver City, Carlsbad 1° by 2° quadrangles (New Mexico), and El Paso and Van Horn 1° by

Geologic map of the Las Vegas SW

quadrangle: Nevada Bureau of Mines and

Geologic maps of the Las Vegas NW and Las Vegas NE quadrangles: Nevada Bureau of

Mines and Geology Open-File Reports 82-4

and Box Elder County, Utah: U.S.

Geological Survey Open-File Report 81-

Quaternary geomorphic features and soil associations in northern Chihuahua, Mexico and adjoining New Mexico and

Texas, in Cordoba, D. A., Wengerd, S. A., and Shomaker, John eds.; Border Region,

Mexico and the United States: New Mexico Geological Society Guidebook, 20th Feild Conference, 1969, and written commun.,

used for additional fault traces to

supplement Anderson and Miller, 1979 (1).

L. K., 1981, Young fault map of Arizona:

Contract report for the U.S. Geological

Survey #14-08-0001-18285; faults and ages modified by Menges, C.M., written

concerning the late Quaternary fault along the Rio Grande in Precidio County, Texas, and Quaternary faults in the Taos

concerning faults near Jackson, Wyoming

California and Arizona; in Fife, D. L., and Brown, A.R., eds.: Geology and mineral wealth of the California Desert: Southcoast Geological Society, California

and in the Upper Arkansas Valley,

32. Jennings, C. W., 1975, Fault map of

33. Machette, M. N., unpublished maps of Aztec, Raton, Albuquerque, Socorro, Tularosa,

34. Matti, J. C., and Bachhuber, F. W., 1982,

Geology Open-File Report 82-6.

35. Matti, J. C., and Morton, D. M., 1982,

36. Miller, D. M., and Lush, A. P., 1981, Geologic map of the Pilot Peak and adjacent quadrangles, Elko County, Nevada

658, and oral commun., 1982.

37. Morrison, R. B., 1969, Photointerpretive mapping from space photographs of

38. Morrison, R. B., written commun., 1981,

39. Morrison, R. B., Menges, C. M., and Lepley,

40. Muehlberger W. R., written commun., 1981,

1° by 2° quadrangle, New Mexico.

41. Ostenna, D. A., written commun., 1981,

42. Purcell, C., and Miller, D. G., 1980, Grabens along the lower Colorado River,

43. Roquemore, G. R., 1981, Active faults and

44. Schell, B. A., Muir, S. G., and Farley, T.,

45. Schell, B. A., Wilson, K. L., Christenson, G. E., and Scott, S. L., 1981, Regional

46. Scott, W. E., 1981, Surficial Geologic map

47. Smith, J. G., Geologic map of the Medford 1° by 2° quadrangle, Oregon and

48. Smith, R. S. U., 1979, Holocene offset and

49. Stewart, J. H., 1980, Geology of Nevada:

50. Walker, G. W., 1977, Geologic map of Oregon

51. Walker, G. W., Nolf, B., 1981, High lava

plains, Brothers fault zone to Harney

Basin, Oregon: in Johnston, D.A. and Donnelly-Nolan, J., eds., Guides to some volcanic terranes in Washington, Idaho, Oregon and northern California; U.S.

Geological Survey Circular 838, and

scarps related to earthquakes in northcentral Nevada: U.S. Geological Survey

Open-File Report 79-1544, and written

All historic, Holocene, and late Quaternary faults from Wallace, Quaternary faults from Stewart, 1980,

Lake Valley, Utah-Idaho: American Journal

53. Williams, J. S., Willard, A. D., and Parker, V., 1962, Recent history of Bear

54. Witkind, I. J., 1975, Preliminary map showing known and suspected active faults in Idaho: U.S. Geological Survey Open-File Report 75-278.

55. 1975, Preliminary map showing known and suspected active faults in Wyoming:

U.S. Geological Survey Open-File Report

of Science, v. 260, p.24-36.

Walker, G. W., written commun., 1982.

52. Wallace, R. E., 1979, Map of young fault

Investigation Map I-902.

Nevada Bureau of Mines and Geology,

Special Publication 4, p. 136; written commun., 1982, for age assignments.

east of the 121st Meridian: U.S. Geological Survey Miscellaneous Geologic

of the Eastern Snake River Plain, Idaho and Wyoming, Sheet 1 of 2: U.S.

Geological Survey Open-File Report 81-

California, written commun., 1981 to Paul

seismicity along the Panamint Valley fault zone, Western Basin-and-Range Province, California: Tectonphysics, v.

commun., 1981.

Grabens, California.

associated tectonic stress in the Coso Range, California: Reno, University of

Nevada, unpublished Ph.D. thesis, 134p.,

1981, Quaternary faults in east-central

24th Annual Meeting Program with Abstracts, and Schell, B. A., written

neotectonic analysis of the Sonoran desert; Fugro, Inc., Long Beach, California: U.S. Geological Survey Open-

File Report 81-122; used for the late

Quaternary fault near Sonoyota, Sonora, Mexico and the Blythe and Chemehuevi

Nevada and west-central Utah: Association of Engineering Geologists

Dibblee Volume, 555p.

20 quadrangles (Texas).

California.

and 82-5.

OPEN-FILE REPORT 82-579

1. Anderson, L. W., and Miller, D. G., 1979, Quaternary fault map of Utah: Fugro Inc., Long Beach, California, 355p. Faults shown range in age from Holocene to suspected Quaternary.

2. Anderson, L. W., Nelson, A. R., and Sullivan, T., U.S. Bureau of Reclamation, written commun., 1981.

3. Anderson, R. E., and Buckman, R. C., 1979, Map of fault scarps in unconsolidated sediments, Richfield 1° by 2° quadrangle, Utah: U.S. Geological Survey Open-File Report 79-1236.

4. Anderson, R. E., written commun., 1982.

5. Barnhard, T. P., Map showing Quaternary faults in the Elko 1° by 2° quadrangle Nevada, written commun., 1982.

6. Bell, J. W., 1981, Quaternary fault map of

the Reno 10 by 20 quadrangle, Nevada: U.S. Geological Survey Open-File Report

7. Brogan, G. E., and Carr, W. J. Death Valley-Furnace Creek Fault zone, written commun., 1981. Brogans designation of faults are complex and were generalized as Quaternary faults by W. J. Carr, (written commun., 1981);

8. Bucknam, R. C., 1977, Map of suspected fault scarps on unconsolidated deposits, Tooele 1° by 2° quadrangle, Utah: U.S. Geological Survey Open-File Report 77-

9. Bucknam, R. C., and Anderson, R. E., 1979, Map of fault scarps on unconsolidated sediments, Delta 10 by 20 quadrangle, Utah: U.S. Geological Survey Open-File Report 79-366; used for faults in the

10. Bucknam, R. C., written commun. 1982 and Summaries of Technical Reports, v. VIII, National Earthquake Hazards Reduction Survey. Figure 1A used for ages of faults in Hansel Valley, Utah.

Geologic reconnasissance map. Rattlesnake Flat area, Mineral County, Nevada, written commun., 1982.

12. Carr, W. J., Map of Quaternary faulting in

Some Quaternary faults may be Pliocene in 13. Clark, M. M., and Yount, J. C., 1981,

fault associated with the Mammoth Lake, California, earthquakes of May, 1980: U.S. Geological Survey Miscellaneous Field Studies Map MF-1396. 14. Colman, S. M., 1982, Map showing late

U.S. Geological Survey Miscellaneous Geologic Investigation Map, (I-___) in

Oral and written commun., 1981. Assigned suspected Quaternary age (?) to a segment of the Sierra Fault.

Extended the Bear Lake Valley fault northward and assigned a Holocene age to its entire length; see Williams, J. S. and others, (53).

17. Dickey, D. D., and Gibbions, A. B., written commun., 1981. Faults were mapped adjacent to the Idaho/Utah and Utah/Wyoming border in the Kemmerer, Evanston, Ogden, and Logan 30' by 60' quadrangles. Based on Dickey almost certain fault" category is placed in our Quaternary classification whereas their "probable active and possible active fault" is classed as a suspected

18. Dodge, R. L., and Gross, L. T., 1980, Tectonic and geomorphic evolution of the Black Rock Fault, northwestern Nevada: in Anderson, R. E., Ryall, A., Smith, R. S., Evernden, J. F., Andriese, P. D., eds., Earthquake hazards along the Wasatch-Sierra Nevada frontal fault zones: U.S. Geological Survey Open-File Report 80-801, p. 494-508 and Dodge, R. L., written

19. Dodge, R. L., Bucknam, R. C., and Barnhard, T. P., 1982, Map of fault scarps on unconsolidated sediments, Tooele 10 by 20 degree Quadrangle, Utah; U.S. Geological Survey Open-File Report, (82-__) in press.

20. Dodge, R. L., written commun., 1982. shoreline, therefore a late Quaternary age is assigned.

21. Dohrenwend, J. C., 1981, Late Cenozoic fault map of the Walker Lake 10 by 20 quadrangle, California and Nevada: U.S. Geological Survey Miscellaneous Field Studies Map, (MF-__) in press. Dohrenwend's faults classified as forming scarps in lower Quaternary and (or) upper Tertiary rocks have been generalized and reclassified as suspected Quaternary

22. Duffield, W. A., and Bacon, C. R., 1981, Geologic map of the Coso volcanic field and adjacent areas, Inyo County, California: U.S. Geological Survey Miscellaneous Geologic Investigation Map, I-1200; used to assign Pliocene age to faults south of Owens Lake and east of Quaternary on Jennings 1975 map (32).

23. Gower, H. D., written commun.; as used for Oregon in Howard, K. A. and others, 1978

24. Gross, L. T., written commun., 1979. New data and reclassification of ages for faults north of Pyramid Lake, Nevada.

25. Gross, L. T., 1981, Bean, S. M., Roberts, C. T., Tuppan, E. J., and Youngkin, M. T., Southeastern Cascades geothermal project, northeastern California: Final Report to U.S. Geological Survey on Grant #14-08-001-Cr-624.

> Faulting in Western Sunrise Valley, Modoc County, California: San Jose State University, California, unpublished Masters thesis, 113p.

27. Hait, M. H., Jr., Map showing post-Eocene and younger faults in the Basin and Range area of east-central Idaho and southwest Montana, written commun., 1981.

28. Hill, R. L., Pechmann, J. C., Treiman, J. A., McMillan, J. R., Given, J. W., Ebel, J. E., 1980, Geologic study of the Homestead Valley earthquake Swarm of

29. Henry, C. D., 1979, Geologic setting and geochemistry of thermal water and geothermal assessment, Trans-Pecos Texas: Texas Bureau of Economic Geology Report of Investigation 96, and Written commun.,

30. Herd, D. G., and McMasters, C. R., 1982, Map of surface faulting in the Sonoran earthquake of 1887: U.S. Geological Survey Miscellaneous Field Studies Map Denver, CO 80225 (MF-) in press.

ACKNOWLEDGEMENTS We would like to express our gratitude to the contributors who furnished information for this map. In addition, a special thanks to our colleagues Robert Wallace and Meridee Jones-

Cesil for their interest and helpful comments in this compilation. We would like to elicit comments, invite all updates and new sources for a 1983-84 revision. SEND INFORMATION TO: John K. Nakata or Carl M. Wentworth U.S. Geological Survey

> Menlo Park, CA 94025 Michael N. Machette U.S. Geological Survey Central Regional Geology, MS 913 Federal Center

Branch of Western Regional Geology, MS 75 345 Middlefield Road